



U.S. Application No. 08/575,763

Page 2

**IN THE CLAIMS:**

Please amend claims 1, 11 and 26 as follows:

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## GROUP 1

1. (Amended) A reactor, comprising:  
a first electrode;  
a movable electrode spaced from the first electrode, wherein the movable electrode is adapted to pivot about a line intersecting and perpendicular to the movable electrode;  
a heating filament array [having a movable electrode and a force regulator attached to the movable electrode] attached to the first electrode and to the movable electrode;  
an assembly, attached to the movable electrode, adapted to pivot about the line; and  
a force regulator coupled to the assembly to apply tension to the heating filaments.

11. (Amended) The reactor of claim 1, wherein the assembly is [movable electrode is attached to the force regulator through] a cantilever.

26. (Amended) A reactor comprising a heating filament array having a movable electrode and [a] means for applying a force on the filaments of the array, wherein the means for applying [a] the force [on the filaments of the array] is attached to a pivoting, slid able assembly connected to the movable electrode.

Please add new claims 46-56 as follows:

~~22~~ --46. A reactor comprising a heating filament array having a movable electrode and a force regulator attached to the movable electrode wherein the movable electrode sits on a roller on which the electrode may roll.

~~23~~ ~~47~~ ~~22~~ 47. The reactor of claim ~~46~~ wherein the roller is a rod.

~~24~~ ~~48~~ ~~22~~ 48. The reactor of claim ~~46~~ wherein the movable electrode is attached to the force regulator through a cantilever, and wherein the cantilever has a pivoting slide on which the movable electrode is mounted.

~~25~~ ~~49~~ ~~22~~ 49. A reactor, comprising a heating filament array having a movable electrode and a means for applying a force on the filaments of the array, wherein the means for applying a force on the filaments of the array is attached to the movable electrode, wherein the movable electrode sits on a rolling support means that supports the movable electrode and allows the electrode to move.

~~26~~ ~~50~~ ~~22~~ 50. A reactor comprising a heating filament array having a movable electrode and a means for applying a force on the filaments of the array, wherein the means for applying a force on the filaments of the array is attached to the movable electrode, wherein the means for applying the force on the filament and the array is attached on opposite sides of a pivoting and sliding assembly on which the electrode rides.

~~27~~ ~~51~~ ~~22~~ 51. A reactor, comprising:  
a fixed electrode;  
a pivoting electrode, spaced apart from the fixed electrode;

a plurality of heating filaments, wherein each heating filament is attached at one end to the fixed electrode and attached at the other end to the pivoting electrode; and

a force regulator coupled to the movable electrode to maintain the heating filaments under tension.

*✓*  
28 52. The reactor of claim ~~51~~, further comprising a roller in contact with the pivoting electrode and a roller surface.

*✓*  
29 53. The reactor of claim ~~51~~, further comprising flexures attached to the pivoting electrode which pivots about the flexures.

*✓*  
30 54. The reactor of claim ~~51~~, further comprising flexures and spacing rods, wherein the pivoting electrode is attached to one end of each spacing rod which is attached to one end of each flexure, wherein the pivoting electrode pivots about the flexures.

*✓*  
31 55. The reactor of claim ~~51~~, wherein the force regulator comprises a spring attached to a screw to adjust the tension of the force regulator.

*✓*  
32 56. The reactor of claim ~~51~~, further comprising a cantilever assembly coupled to the force regulator and to the pivoting electrode, the cantilever assembly including a cantilever and a slide, wherein the cantilever is slidably mounted on the slide and rotatably mounted about the pivot.--